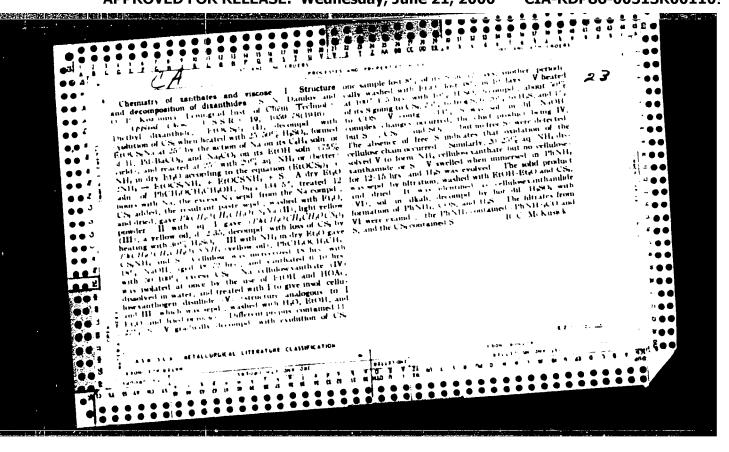


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# DANI LOV, S.N.

Characteristics of modern organic chemistry and the role of the Butlerov-Favorskii School in its development. Vest. Len. un. 2 no.1:103-126 Ja '47. (MLRA 9:6)

1.Chlen-korrespondent AN SSSR. (Chemistry, Organic)(Butlerov, Aleksandr Mikhailovich, 1828-1886) (Favorskii, Aleksei Evgrafovich, 1860-1945)

## "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001109

· 是中国教训·国际的文化是是各种政策,这种思想的对象是是是是是自己的的。 TA 15T75 DANTICY, J. N. Mar 1947 USSR/Chemistry - Viscose Viscose "Softening of Viscose (Cellophane) Films with Glycerine Water Solutions, "S. N. Danilov, M. A. Sokolovsky, A. I. Evdokimova, 15 pp "Zhur Obshch Khim" Vol XVII, No 3 It was found that the degree of swelling of the films in water solutions was considerably higher than in water alone, and that the constituents of the softening bath were absorbed by the films in proportions differing from those in which they are present in the bath. 15178

C3f.R E4.R

# MATTET, B. N.

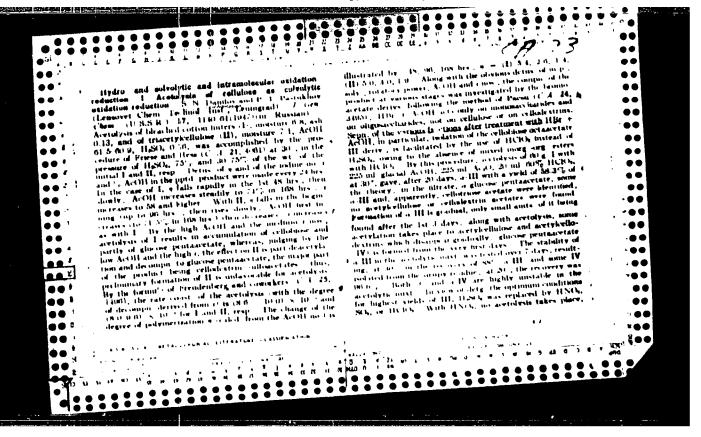
Corresponding member of AN SSSR

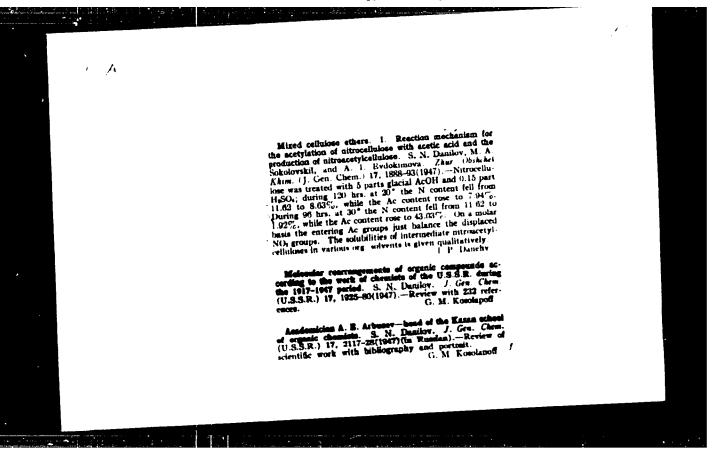
Delivered a paper "Gomegennyy kataliz pri okialitel'nove natanevitel'nykh prevrashcheniyakh rganicheskikh soyedineniy", at Vses. konferentilya po katalizu, May 1047, Moscow.

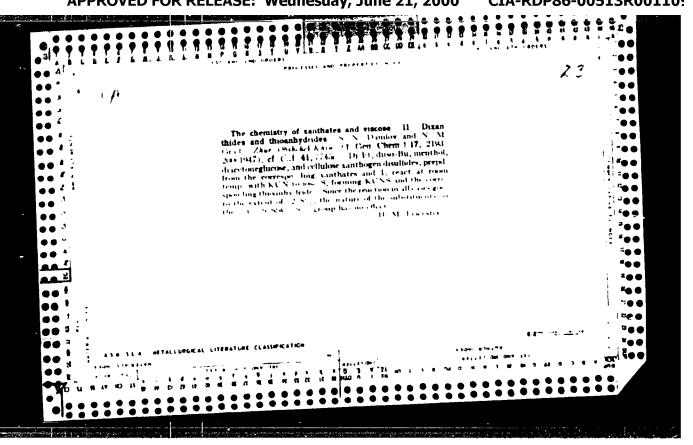
Source: Uspekhi Khimii, 1947, No. 4, p. 502

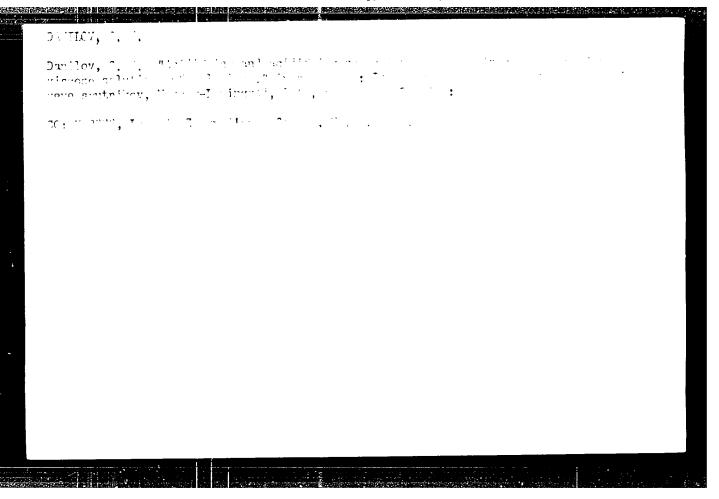
1-1

	RI <sub>4</sub> D <sub>4</sub> R C3 <sub>4</sub> R	
DATTICY, S. N.		
Delivered a paper "Nabukhaniye kislotakh i svovstva pidrotsell; stiva vo vysokomolekulyarnym soj	tsellywlozy v mineral'nykh ymlozy" at Chetve tay konferen- yedineniyam, May, 1966	
Krimicheskaya Promyshl. 1946, N	n. 7-8, p. 17	
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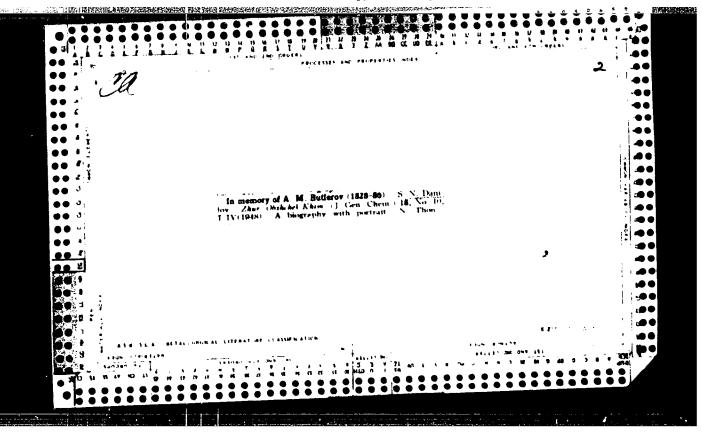


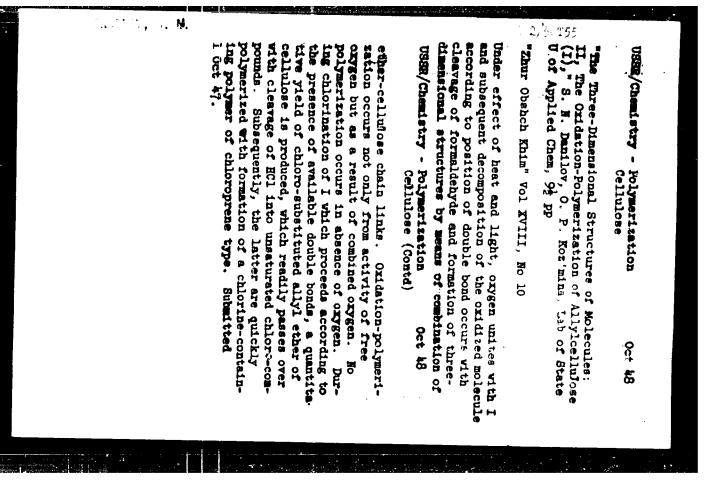




DANILLY, S. N. "Effect of mineral acid on cellulose and benavior of hydrocellulose," in symposium: Issledovaniya woblasti tsellyulozy i yeye sputnikov, Moscow-Leningrad, 1948, p. 88-97 - Mibliog: p. 97

SO: U-2888, Letopis Zhurnal'Statey, No. 1, 1:49





DANILOV, S. N.	USSR/Chemistry - Isomerization (Contd) compounds and the catalyst. Studied isometransformation of aldehydes to ketones in presence of H2SOh and mercury. Submitted	"Zhur Obshch Kh: "Zhur Obshch Kh: Isomeric transfo a catalytic read of homogeneous, catalysis, deper	Aldehydes stolytic and II, Acid and tion of Aldeh ai A. Ye. Fav	USER/Chamistry - Isomerization
61.16n/129	67/49719  in (Contd) Nov 48  Studied isomeric the Submitted 15 Sep 47.	im" Vol XVIII, No 11  representation of aldehydes to ketones 1s  retion which occurs under conditions  quasi-homogeneous and hetero-geneous  ading on the properties of the	Intramolecular Oxida- Acid-Salt Catalysis Nydes in Ketones," S. N.	Mov 48

DANILOV, S. N.

PA 67/49T22

USSE/Chemistry - Isomerization Aldehydes

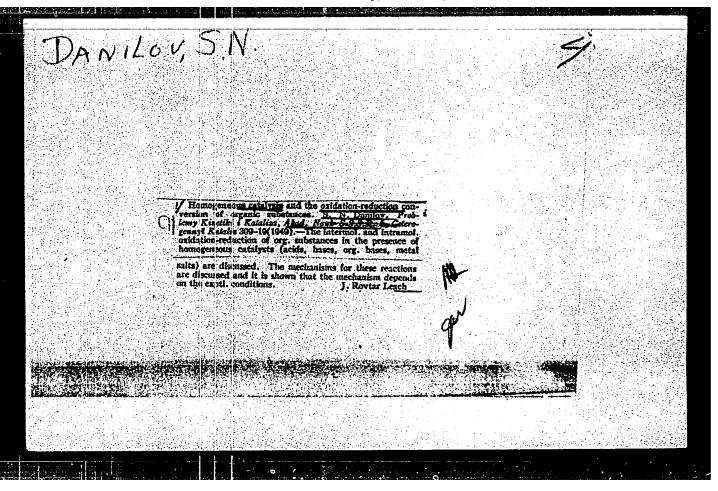
Nov 48

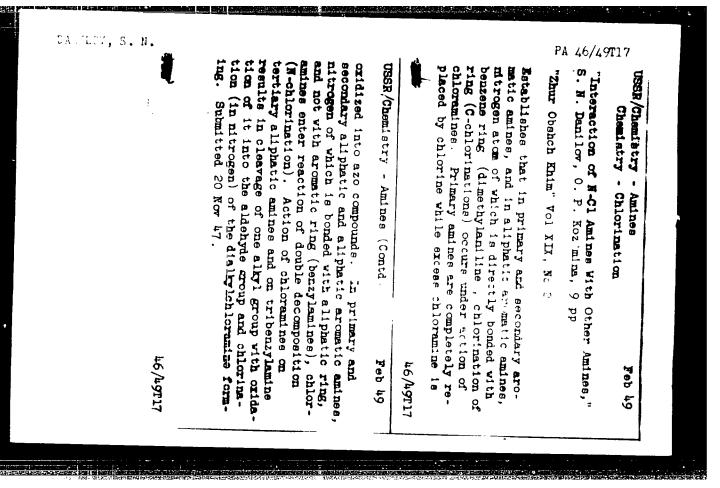
"Isomerization of Oxyaldehydes: XII, Oxyketones With a Primary Alcoholic Group and Their Relation to Alpha-Oxyaldehydes and to Isomeric Alpha-Oxyketones,". S. N. Darilov, N. S. Tikhomirova, Lab imeni A. Ye. Favorskiy, Sci Res Chem Inst Affiliated With Leningrad State U, 7 pp

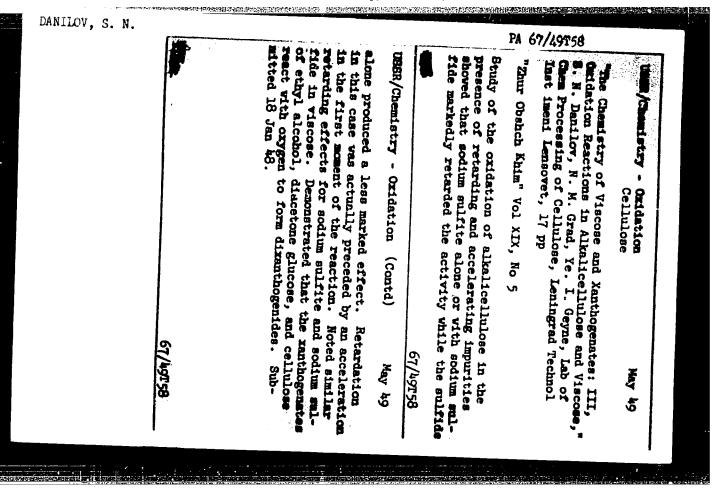
"Zhur (bahch Khim" Vol XVIII, No 11

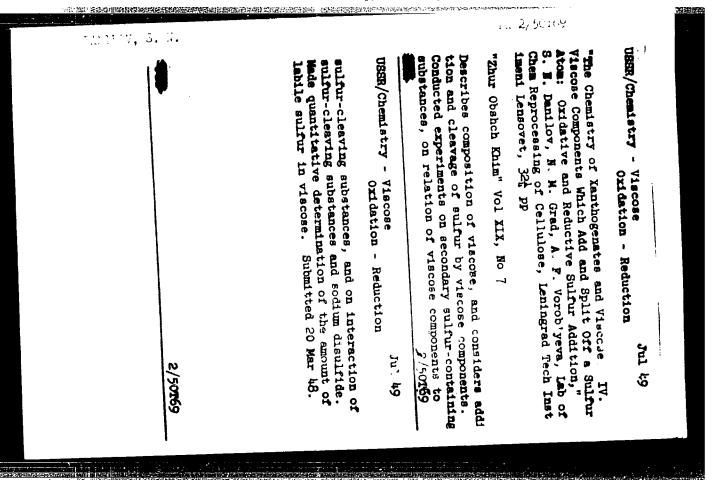
Found that 1-chloro-2-butanol was converted either to hydroxymethyl ethyl ketone or 2-methyl-alphahydroxyethyl ketone, depending on the conditions of the reaction. Submitted 15 Apr 48.

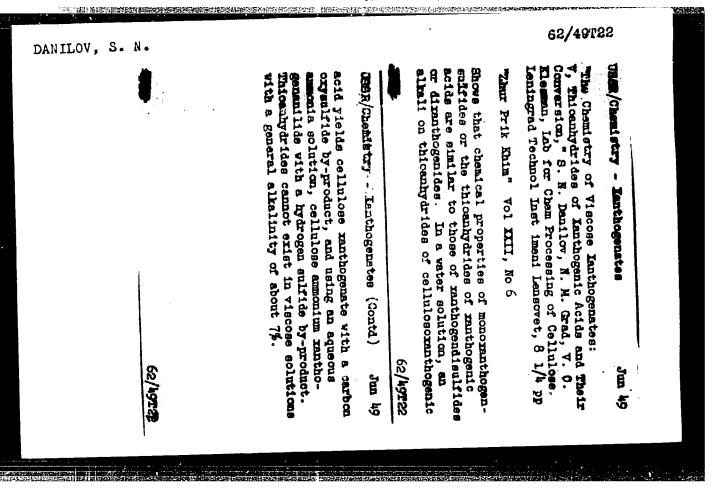
67/49F22

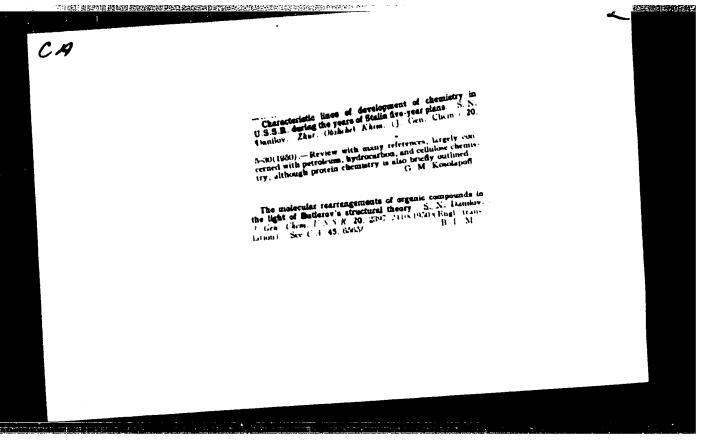












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CA

Ashydrides of amino and quantidino derivatives of carbehydrates and polystomic alcohole. I o-Amino, o-dimethylamino, and o-guantidino derivatives of givcofur-anses. S. N. Dambov and I. S. Lishanskii. Zhu: Oblinio Rhim. (J. Cen. Chem. 21, 366-74 (1951). — Vigorous inchel Khim. (J. Cen. Chem. 21, 366-74 (1951). — Vigorous and MecCO (1:20 ratio) with 5% by wt.

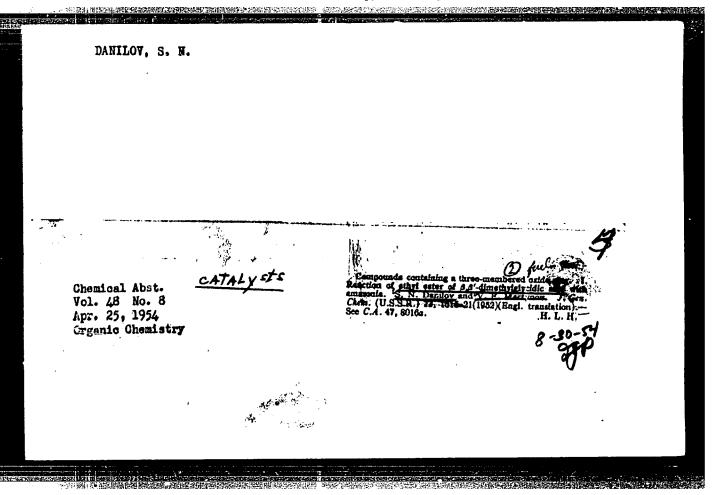
of HS0, 4. In Indianced by strong with NatCO, CM cannyd salt lost g. 11,50, betting the mixt sained 12,21 hrs., filtration, and evapt in trans yields 65% diacetons glacoss, m. 111-12" (from petr. ether). This in 8 party lettors, filtration at the HNO, (d. 1.3) (1 ml. 700 ml. solt and heated on a steam bath 5 min, yielding 70% monoacetousglacoss, m. 161-2"; hydrolysis in 50% MeOH and HisO, at room temp is more laborious. Treatment with 1 mole p-MeC4H<sub>2</sub>SO/Cl in CHCle-pyridine and washing with H<sub>2</sub>O gives 55% of the 6-toosyl devis., m. 106-7". This is cooled to -20" in dry CHCle and immediately upon initial crystal is treated with 1 mole MeONs in dry MeOH and shaken 2 min, giving after treatment with cold H<sub>2</sub>O. N. N. C. 1.2 increasing the six of the min H2G 4. (from CAH.—Heating this with 8% dry NH<sub>3</sub> in dry MeOH 2 his to 80", after an initial 3 hrs. at 20", and evapt, in cross gave 185% of probably 1.2 inopropylides solvens givens givens (185% of probably 1.2 inopropylides substance, yielding a carbonate m 100-5", a very hygroscopic substance, yielding a carbonate

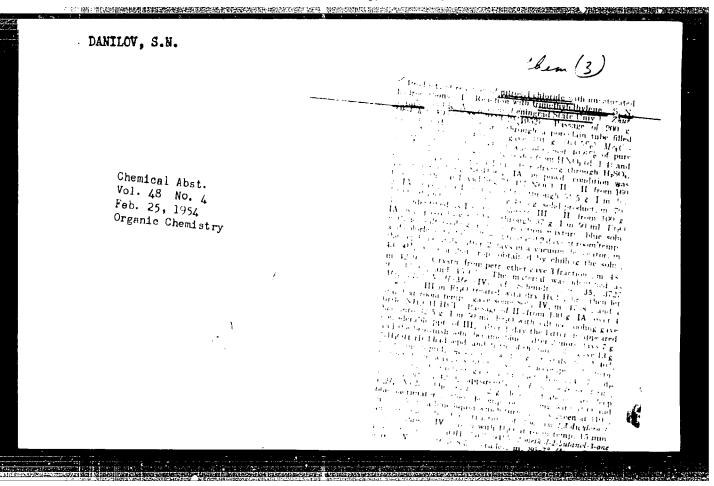
(Callat), Vallately, in the same for the same product of the VIII, and and VIII gives a same vaching a school of the SIII and ving (Callath, Vallatel), apparently the VIII analysing (Callath, Vallatel), apparently the VIII analysing (Callath, Vallatel), apparently the VIII analysing (Callath, Vallatel), apparently the VIII analysis of the above. Several attempts to bring almust the tomorphism of the total and the same of the Vallately of thours in 20 Millately of the AIII and the same of the total and the vallately of the Vallately of the Market of the positions, the product, in 88, 937 (from MesC), when it days are consumed in the beneviation. A 4-th reaction of 4.g. 6-amino deriv. and 4.g thiourea deriv. At 93° in 14.6 followed by evapin, thorough drying from MesC) solic and treatment with Ag(0), gave a hygroscopy (1,2-troproprii dess-6-desoxy-6-gasandinoglinofarance, in 110-15° is scaled tube); purate, in 148-9° (from dl. EtOH). If H<sub>1</sub>NC is the Ag(0) gave a hygroscopy (1,2-troproprii dess-6-desoxy-6-gasandinoglinofarance, in 110-15° is scaled tube); purate, in 148-9° (from dl. EtOH). If H<sub>1</sub>NC is the Ag(0) gave the proposition of the Vallately of the Vall

1451

RSR/Chemistry - Structural Theory  A. M. Butlerov, Founder of the Theory of Chemical Structure, "S. M. Danilov  Reviews Butlerov's activity which, slithough mainly state subject of resonance and org structural theory in general. Author Danilov states that Butlerov, who discovered tentcomerism, regarded it correctly as equil isomerism and did not assume oscillation of the hydrogen stom. According to Danilov,  196287/Chemistry - Structural Theory tearism, are now being applied in connection with USER industrial developments.  194721	· · · · · · · · · · · · · · · · · · ·		1		m • d l	
		194 <b>72</b> 1	Chemistry - Structural Theory (Contd)  of Butlerov's discoveries, neglected und ism, are now being applied in connection industrial developments.	Reviews Butlerov's activity which, although mainly historical, reflects the current controversy on the subject of resonance and org structural theory in general. Author Danilov states that Butlerov, who discovered tautomerism, regarded it correctly as equil isomerism and did not assume oscillation of the hydrogen atom. According to Danilov,	Structural Theory Oct Founder of the Theory of Chemis Danilov m" Vol XXI, No 10, pp 1733-1748	

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DANILOV, G. N.	
hemical Reactions	
Consecutiveness in the course of chemical reactions in the most of terme compounts during isomeric conversions. We to be no unit, No. 22, 1972.	fiate
9. Monthly List of Russian Accessions, Library of Congress,	1953, Uncl.



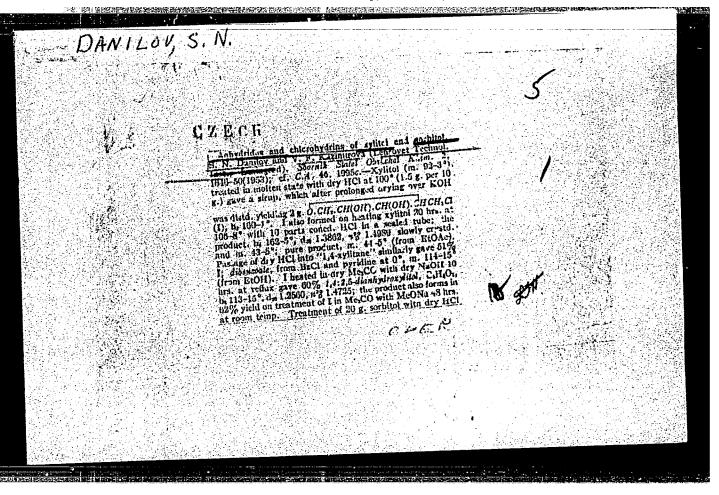


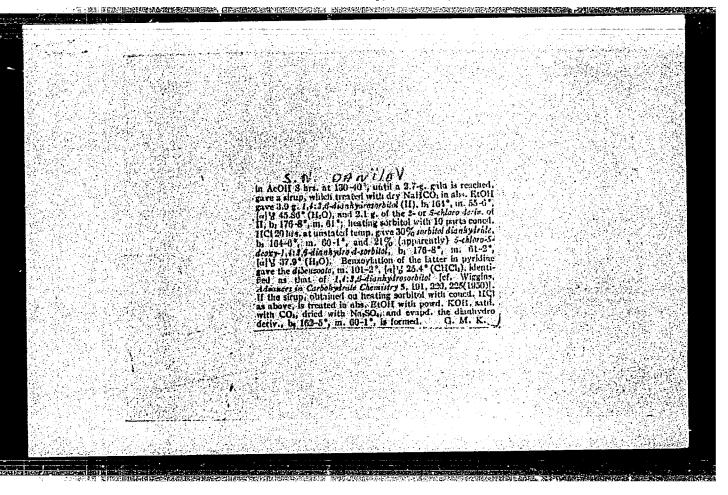
Refluxing IV 1 hr. with McOH and crushed marble, and letting stand overnight gave 61% 2-methyl-2-methoxy 1. bullinone oxime (VII), m. 89-90°, and some V. Sumilar's EtOH gave the 2-EtO analog, b. 84.5° n.% 405°. Refluxing IV in Et<sub>1</sub>O with dry KOAc 4.5 hr. gave 2-methyl-2 neetoxy-3-bulanone oxime, m. 102-3° (from ligroine). IV (16 g.) refluxed in Et<sub>2</sub>O with 20 g. NaHCO<sub>1</sub> 6.3 hrs gave 55.5% 2-methyl-1-bulen-3-one oxime, (VI) bn 65-7° m 43-4°; a mixt. of marble and NaHCO<sub>1</sub> give the same product, b<sub>1</sub> 68°, which solidifies on standing (m. 43.4°), and a liquid portion, d<sub>10</sub> 0.9529, n.g. 1.4833, an isomer of the above; on long standing it is transformed to the above solid form. Addn. of 2.4 g. IV in Et<sub>2</sub>O to 15 g. SnCh in Et<sub>2</sub>O satd. with HCl with cooling gave 2-methyl-3-aminobulane. b<sub>10</sub> 85-5.5°, n.g. 1.4060, whose HCl salt m. 210°. On hydrogenation of VI over Raney Ni in EtOH VI took up somewhat over 2 mois and gave 2-methyl-3-aminobulane, b<sub>10</sub> 85-6.5°, n.g. 1.4060, whose HCl salt m. 210°; the yield was very low if the solid isomer of VI w is used and some 40% from the liquid isomer; pure 2-methyl-aminobulane, b<sub>10</sub> 85-6.5°, d<sub>10</sub> 0.7478, n.g. 1.4047. The same amine is formed on hydrogenation of Me<sub>1</sub> CHC (NOH)Me over Raney Ni in EtOH. Similar reduction of Will be same amine is formed on hydrogenation of Me<sub>1</sub> CHC (NOH)Me over Raney Ni in EtOH. Similar reduction 4VII gave 2-methyl-2-methyl-3-aminobulane, b<sub>10</sub> 133.35°, while Villar size to 70% of crude amine; along with this is formed an unstated yield of (Me<sub>1</sub> CHOH) CHMe<sub>1</sub>NH, m. about 30°, b<sub>10</sub> 1252-4°. 2-Methyl-1-bulanol-3-one oxime, b<sub>10</sub> 134.5°, m. 42-4°, hydrogenated in also BtOH gave 52.3% crude 2-methyl-3-amino-1-bulanol (IX), b<sub>20</sub> 104°, d<sub>20</sub> 0.9389, n. 48° 1.4578. VIII (6.1 g.) in 10 ml. H<sub>2</sub>O treated with 6 n.1 coned. H<sub>2</sub>SO, and 10 ml. H<sub>2</sub>O and dixtd over 4.2 hr charb temp 143° then treated with NaOH, pave 1° 1.7 ml. 20 methyl-3-amino-1-bulene, b<sub>20</sub> 80°, d<sub>20</sub> 0.7355. n. 21.42.4 HCl salt, m. 153-3.5°; picrule, m. 171.2.

buttone tog 87.5.9.5%, dg 0.7784 mt/2.1.4265, dg 4.0.7752, mt/2.1.4210. Similar form is from of IX gave a trace of prostrot, tog 87.4.1.4g solid, mg/2.1.4305. II. Reaction with isobortylene. E. A. (eglothin. Ibul. 2121-6.—Author of lock by storestation at 15% and letting the mixt discrete company at 110 gave, from 31 g. NOCl and 30 g of lock 11.2.2. (ollothers et stabs cl). m. 103-4% (from performance) in 12.2. (ollothers et stabs cl). m. 103-4% (from performance). II. by high ognation of II over Rancy. Ni in the start of the lock of 14.7% (dinner of the extinct of 15.2.4% (lock)). He with 180 ml. H<sub>2</sub>O and the gave in the lock of 14.2.4% (lock) and violed 64% (lock) and violed 64% (lock) and violed 64% (lock) and violed 64% (lock) and the gave in the lock of 16.2.4% (lock) and violed 64% (lock) and the gave in the lock of 16.2.4% (lock) and violed 64% (lock) and the gave in the lock of 16.2.4% (lock) and violed 64% (lock) and the gave in the lock of 16.2.4% (lock) and violed 64% (lock) and lock of 16.2.4% (lock) and lock of 16.4% (lock) a

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109





DANILOV, S.N.

USSR/Chemistry - Polymerization

Card 1/1 : Pub. 151 - 11/37

Danilov, S. N., and Tikhomirova-Sidorova, N. S. Authors

The role of the oxidation-reduction characteristics of alpha-oxyketones Title

during initiated polymerisation

Periodical: Zhur. ob. khim. 24/3, 455-458, Mar 1954

: Experimental results indicate that the participation of hydroxycarboxylis compounds in oxidation-reduction systems during the polymerisation of un-Abstract

saturated compounds may serve as a means for the evaluation of their oxidation-reduction characteristics. The three keto-elcohol groups found most active in oxidation-reduction systems during polymerization are listed. Keto-elcohols, having played an important role as reducing agent in oridation-reduction systems luring polymerization, become oxidized; the cause for the oxidation is a plained. Twelve references: 9-USSR; 1-USA and

2-German (1913-1954). Graph.

Institution : Academy of Sciences USSR, Institute of High Holecular Compounds

: December 1, 1953 Submitted

DANILOV, S.N.

USSR/Chemistry - Isomerization

Card 1/1 : Pub. 151 - 12/37

Authors : Danilov, S. N., and Tikhomirova-Sidorova, N. S.

Title : Isomerization of alpha-oxyaldehydes. Part 13.- Conversions of alpha-halogeno- and alpha-oxyketones with primary alcohol group

Periodical : Zhur. ob. khim. 24/3, 458-465, Mar 1954

Abstract : Isomeric conversions of alpha-oxyaldehydes were investigated to determine the role of primary alpha-keto-alcohols in oxidation-reduction conversions. It was found that primary keto-alcohols (propionylcarbinol and phenylacet-ol) do not it is assumed that the isomerization of alpha-oxyaldehydes into secondary is assumed that the isomerization of alpha-oxyaldehydes into secondary keto-alcohols does not proceed through the stage of primary keto-alcohol. The lesser reducibility of primary keto-alcohol, as compared with that of secondary alcohol, was confirmed by a polarographic method. Twenty-two references: 15-USSR; 1-Canadian; 2-French; 1-USA and 3-German (1890-1952).

Institution: Academy of Sciences USSR, Institute of High Molecular Compounds

Submitted : October 29, 1953

# DANILOV, S. N.

Abstract

USSR/Chemistry - Polysaccharides

Card 1/1 Pub. 151 - 11/37

Authors : Danilov, S. N., and Plisko, E. A.

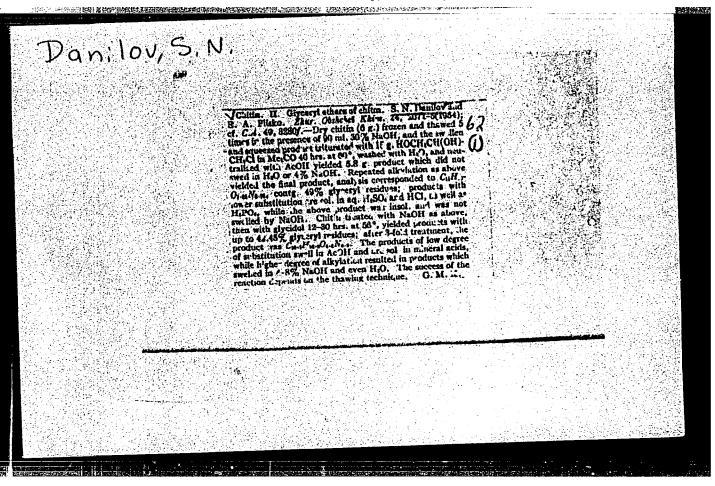
Title : Study of chitin. Part 1.- Effect of acids and alkalis on chitin

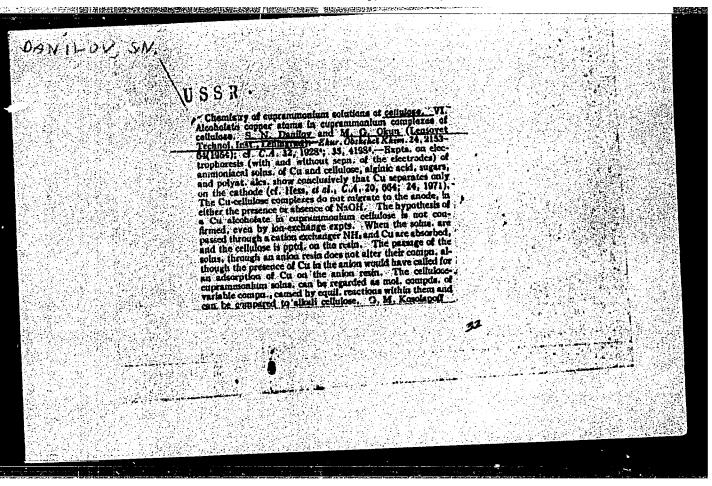
Periodical : Zhur. ob. khim. 24/10, 1761-1769, Oct 1954

tures (up to 180°), and the effect of phosphoric acid on chitin were investigated. During repeated freezing and consequent defrosting of chitin partial hydrolysis of the acetyl group takes place at -40° and maximum hydrolysis was observed during the swelling and solution of the chitin. Complete solution of chitin was observed only at high phosphoric acid concentrations. The effect of high H<sub>2</sub>FO<sub>4</sub> concentration on the solubility of chitin, is explained. Nineteen references: 12-German; 4-USSR; 2-USA and 1-Swiss (1880-1951). Tables; graphs.

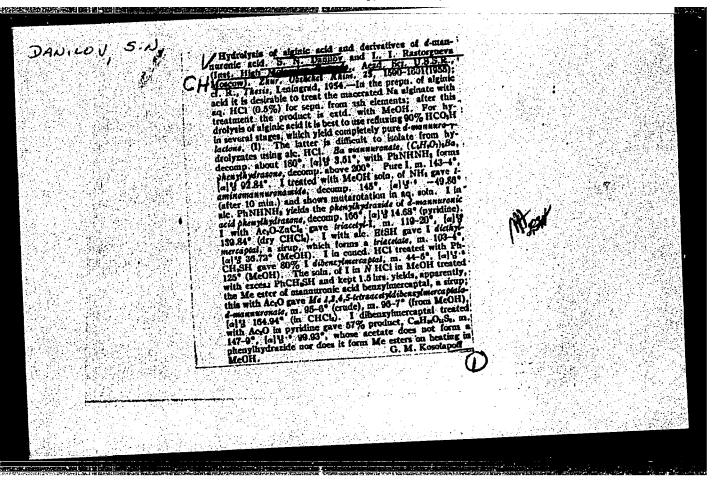
Institution : Academy of Sciences USSR, Institute of High-Holecular Compounds

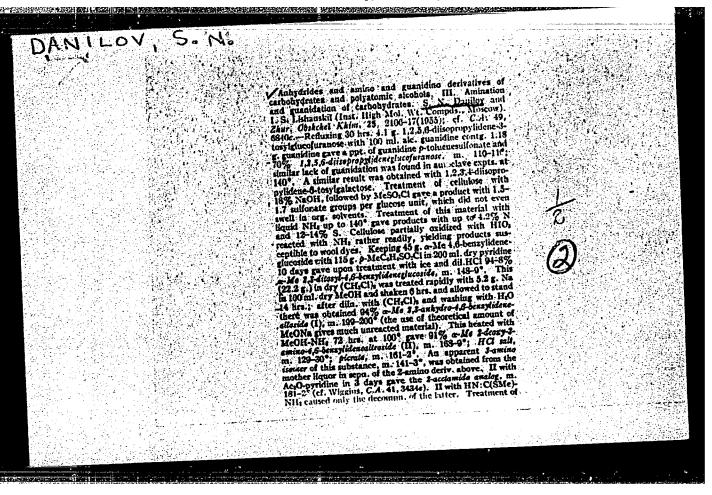
Submitted : February 23, 1954

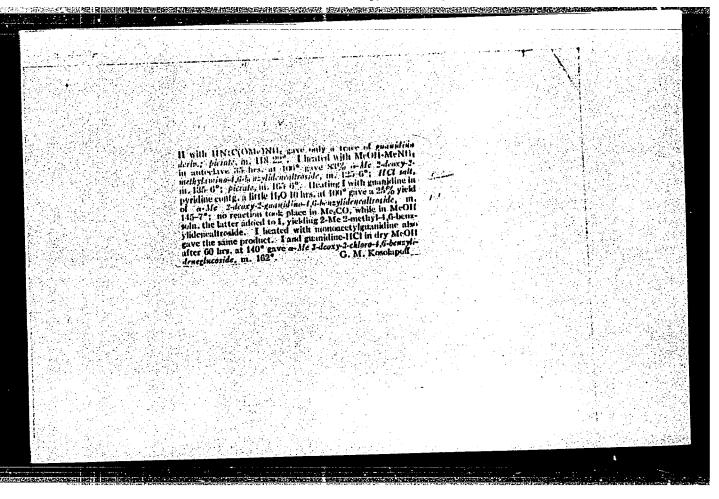


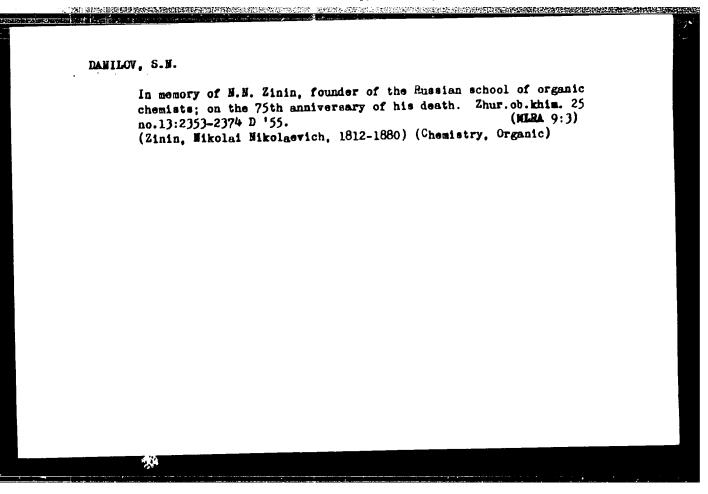


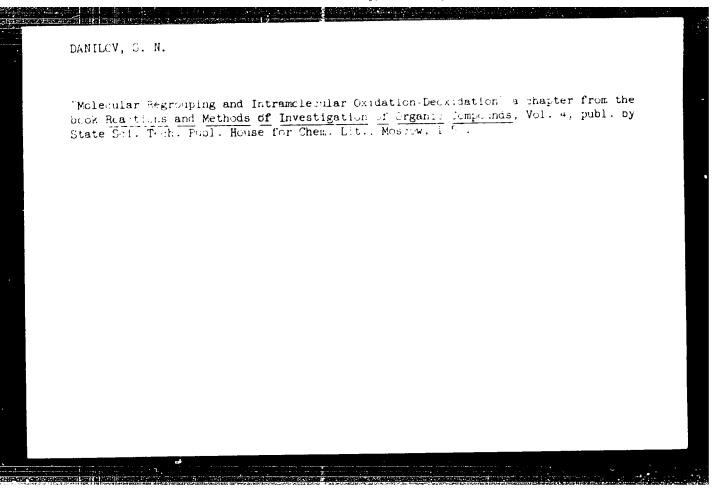
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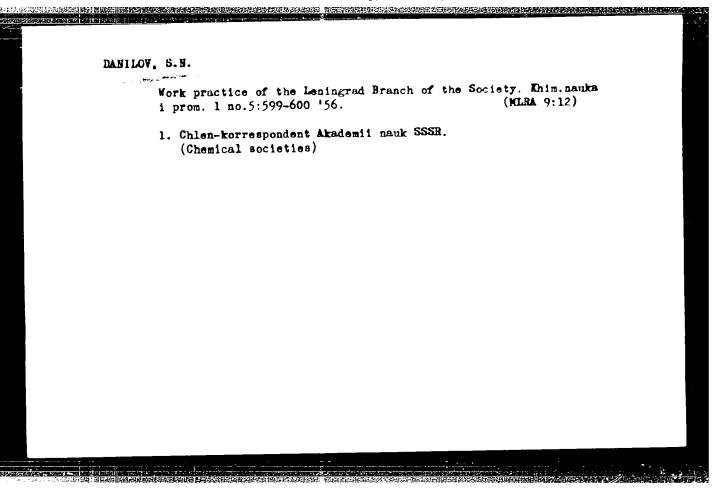


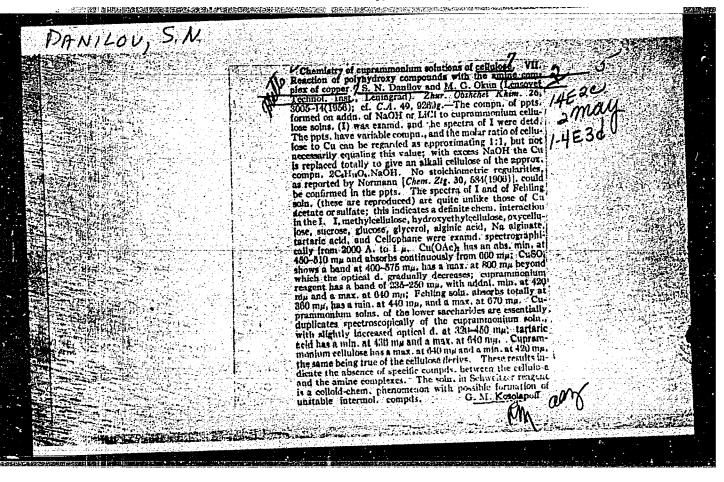












DANILAW, S.N.; GINTSE, N.F.

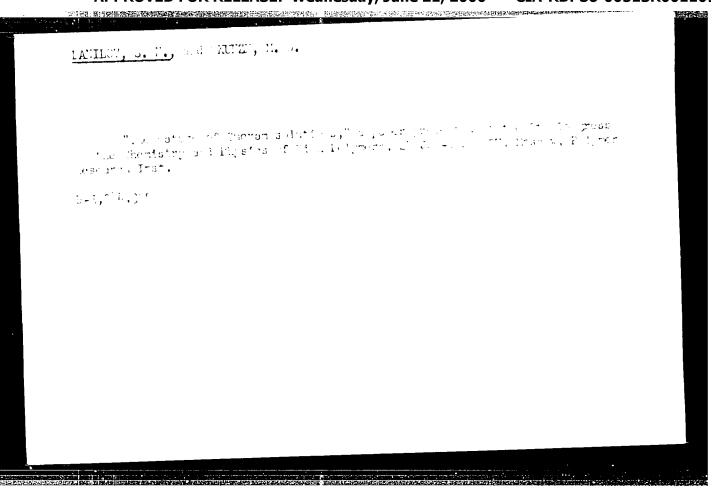
Role of phosphoric acid in the study and processing of cellulone.

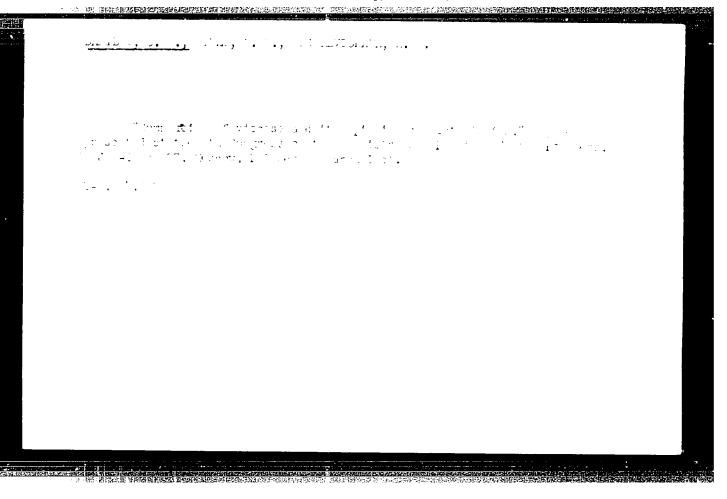
Part 1. Swelling and dissolution of cellulose in phosphoric acid.

Zhur.ob.khim.26 no.11:3014-9020 N '56. (MERA 10:1)

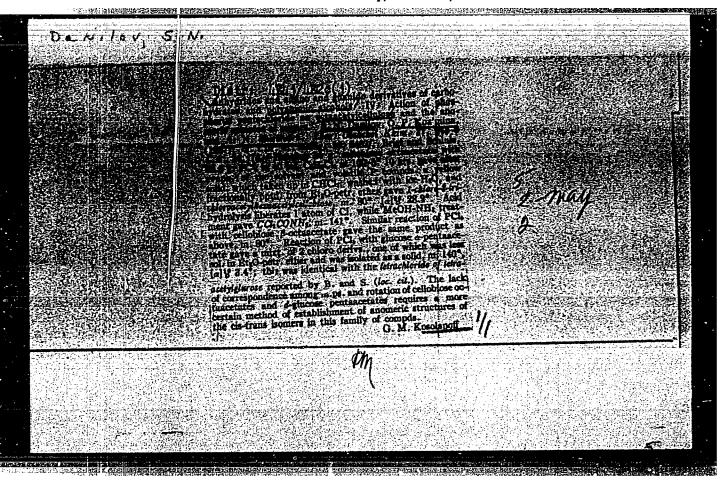
1. Institut vysokomolekulyarnykh soyedineniy Åkademii nauk SSSR.

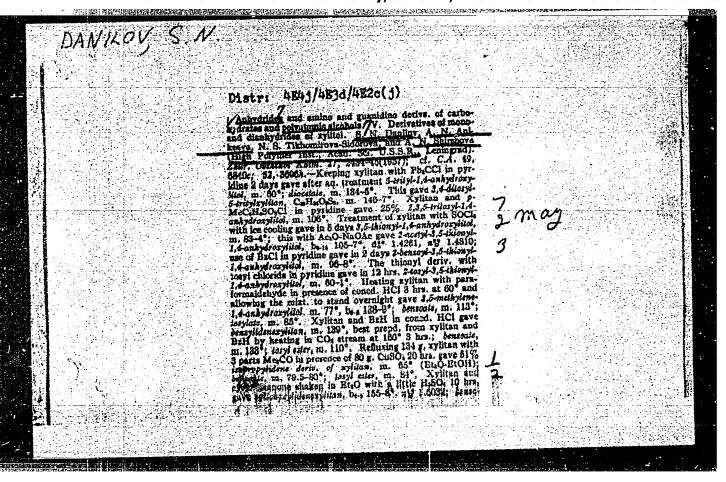
(Gellulose) (Phosphoric acid)

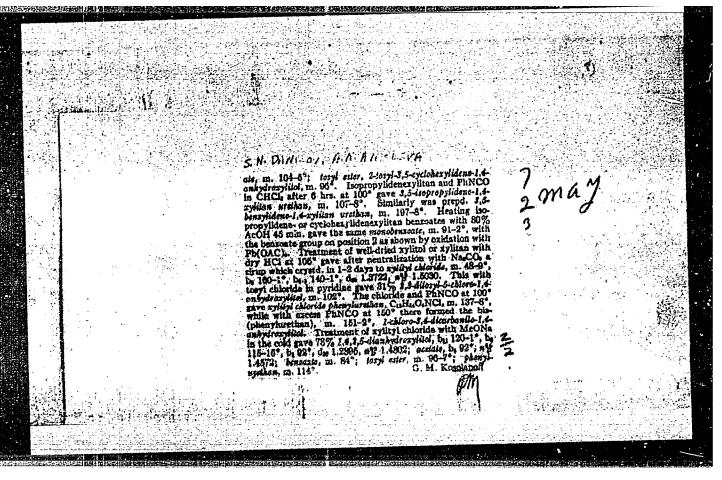




"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109







#### CIA-RDP86-00513R001109 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

AUTHORS: Danilov, S. H., Gintse, M.F. 79-12-24/43

The Chemistry of Xanthogenates and Windows (Krimiya ksantogenatov i TITLE:

VI. The Interdependence of Viscose Components (VI. Vzaimootnosheriya

kemponentev viskozy).

PERIODICAL: Churnel Obshchey Khimii, 1957, Vol. 27, Mr 12, pp. 3290-3301 (USSR).

In the present experiments the effect of the concentration of sodalye ABSTRACT:

as well as of some salt components of viscoe (MaS, NapCS, MapCO, MapSO<sub>4</sub>, MapSpC<sub>4</sub>) in aquecus and alkaline solutions on the velocity

of decomposition of cellul semanthogenate are invest gated. In order to determine the transformation of viscose xanthogenate and the sulffue products forming on this constitution radious chemical methods and als so potentionerrup titration were used. In aqueous solutions xanth gem mate decomposes quicker than in alkaline solutions, where with the increase of the alkalin- character of the solutions of xanthogenate also the itsadiness with regard () the formation of gelatine increases.

The decomposition of venthogenite in weak salt solutions takes place with a relocity which is close to that in water. The more concentra-

Card 1/2 ted the calt substimulis, the less intensive is the decomposition.

CIA-RDP86-00513R001109

APPROVED FOR RELEASE: Wednesday, June 21, 2000

The Chemistry of Manthogenates and Viscose. VI. The Interdependence of Viscose Components.

79-12-24/43

The addition of sodiumhydroxide to the salt solution stops it as is the case in pure alkaline solutions. The nature of the salt addiminant plays a certain part in the formation of gelatine of aqueous salt solutions. A strange influence on the decomposition of xanthomerate exercises sodiumsulfite by slowing lown its own aging in despendence on the decomposition products being formed. With the decommosition of cellulose xanthogenate in aqueous and aqueous electrolytic solutions, as well as of ordinary viscose considerable quantities of sodium sulfite are formed primarily, which then reacts with carbon disulfide and forms trithiocarbonate. The latter can, however, produce again sedium sulfite by means of hydrolysis. The centent of sodium sulfite decreases with the storing (maturing-yozrevaniye) of the somitations of purified xanthogenate whereas the content of trithiocarbon nate increases.

There are lo figures, 1 table, and 17 references, 6 of which are Slavic.

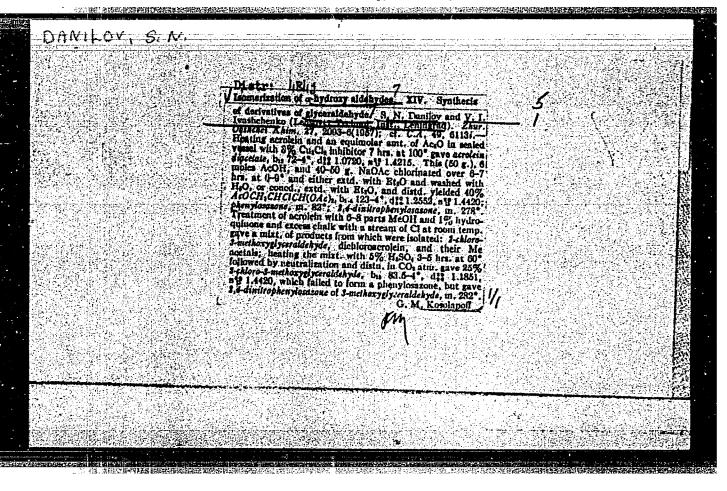
ASSOCIATIOn: Institute for High-Molecular Compounds AN USSR (Institut vysok molekolyannykh soyedineniy Akademii nauk - SSSR).

SUBMITTED: February 8, 1956.

Saud \_/2

1. Xanthogenates-Deterioration 2. Cellulose-Deterioration

3. Xanthogenates-Titration 4. Cellulose-Titration



BUTLEROV, Aleksendr Mikhaylovich; TERENT'YEV, A.P., otvetstvennyy red.;

DANILOY, S.M., red.; PIATE, A.P., red.; POROSEIN, K.T., red.;

BYKOV, G.V., red.izd-va; PAVLOVSKIT, A.S., tekhn.red.; MAKUNI Ye.V.,

tekhn.red.

[Works] Sochineniia. Moskva, Izd-vo Akad. nauk SSSR. Vol.3.

[Popular scientific, historical, critical, bibliographical and
other works in chemistry. Trevels] Nauchno-populiarnye, latoricheskie, kritiko-bibliograficheskie i drugie reboty po khimii.

Puteshestviia. 1958. 429 p. (MIRA 11:4)

2. Chlen-korrespondent AN SSSR (for Terent'yev, Denilov)

(Chemistry)

DANGER

20V/ 30-51-6-30/45

AUTHOR:

Sergiyenko, I. Z.

TITLE:

The Chemistry and Metabolism of Carbohydrates in Animal and Plant Organisms (Khimiya i obmen uglevodov v zhivotnom i rastitel'nom organizmakh) Conference in Moscow (Konferentsiya

v Moskve)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 6, pp. 112-114

(USSR)

ABSTRACT:

This conference took place from January 28 to January 30. It was organized by the Laboratory for Physiological Chemistry of the AS USSR and was attended by about 200 specialists, among them organochemists, biochemists, physiologists, pharmacologists, histologists and physicians who represented various scientific institutions of the AS USSR, of the academy of Medical Sciences of the USSR, of the VASKhNIL, of a number of universities and other colleges, as well as of branch institutes from all the country. It was opened by the Director of the Laboratory for Physiological Chemistry B. N. Stepanenko. He stressed in his detailed report among other things the great theoretical interest in the investigation of the ab-

Card 1/5

The Chemistry and Me'abolism of Carbohydrates in Animal and Plant Organisms. Conference in Moscow

solute formation of simple carbohydrates. New and great success was achieved in the field of the O- and N-glycosides. He reported on some important results of the work in laboratories. Furthermore the following reports were heard:

- 1) S. N. Danilov: On the reaction of the simultaneous oxidation and regeneration in a group of carbohydrates.
- 2) Yu. A. Zhdanov: On the use of different methods of synthesis.
- 3) B. N. Stepanenko, L. K. Kryukova, O. G. Seriyuk: On investigations carried out in the field of ome O- and N-glycosides.
- 4) O. K. Orlova: On 2 new diphtheria bacilli.
- 5) Ye. K. Alimova: On carbohydrates in the structure of liphtheria bacilli.
- 6) S. A. Neyfakh and M. P. Mel'nikova: On enzymatic members.
- 7) V. S. Il'in: On the importance of hexokinase reaction.

Card 2/5

#### CIA-RDP86-00513R001109 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

AUTFORS:

Danilov, S. H. Flisko, Ye. A.

sov/79-28-8-45/66

TITLE:

Investigation of Chitin (Izucheniye khitina) III. Hygroxy-Ethyl-

and Ethyl Ether of Chitin (Oksietilovyye i etilovyye efiry

khitina)

PERICDICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8,

PP. 2217 - 2223 (USSR)

ABSTRACT:

The authors had previously pointed out that the synthesis of chitin ether is made difficult by the fact that chitin is swelling very little in the solutions of alkali (Ref 1).

The investigation of the heats of swelling (Ref 2) in solutions of sodium hydroxide shows that the reaction of chitin is inhibited by the lye. In former attempts to attain the hydroxy-ethyl ethers of chitin it was found that these are not formed under the same conditions as in the synthesis of the hydroxy-ethyl ethers of cellulose. The etherificationand activation conditions with alkali liquor were varied: chitin was treated with alkali during freezing, the etherification was carried out at higher temperature which took more

time. Besides, the chitin was used in the etherification in various states of pulverization whereat the molecular

Card 1/3\_

Investigation of Chitin, III. Hydroxy-Ethyl- and Ethyl Ether of Chitin

SC7/79-26-6-45/66

ratio between it and the ethyleneoxide was also varied. Hydroxy-ethyl ethers of a high degree etherification were obtained which are soluble in water and diluted sodium hydroxide. The ethylation of the chitin treated with alkali liquor was performed with ethyl chloride in sealed tubes in the autoclave. The newly synthesized ethyl-ethers of chitin are soluble in alcohols, ketones, hydrocarbons and esters. The films from ethyl chitin are equal to those from ethyl cellulose as far as their durability is concerned. There are 3 figures, 4 tables, and 7 references, 5 of which are Soviet.

ASSCCIATION: Institut ♥ysokomolekulyarnykh soyedineniy Akademii nauk SSSR

(Institute of High-Molecular Compounds, AS USSR)

SUBMITTED: July 4, 1957

Card 2/3

#### CIA-RDP86-00513R001109 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

Danilov, S.N., Gintse, N.F., Levitskaya, A. V. 307, 79-46-11-10 55 AUTHORS:

Chemistry of Kanthates and Viscose (Khimiya ksantcgenatov i viskozy) TITLE: VIII. Investigation of the Polysulfur Compounds and of the Composition of Viscose Using Tracer Atoms (VIII. Izucheniye poli-

sernistykh soyedineniy i sostava viskozy s primeneniyem meshenykh a tomov)

Zhurnal obsheney khimii, 1955, Vol 28, Nr 11, pp 2945-4956 [USSR] PERIODICAL:

In the present experiments the separation of the sulfar atom from ABSTRACT: dixanthogenides of cellulose, and of ethyl alashol from sodium ii-

sulfide and sodium perthiocarbonate containing the radioactive sulfur isotope 300 in their molecules is lealt with. The results of these experiments are compared to those of the usual chemical analysis. This radioactive method makes it possible to determine the composition of viscose, i.e. the amount of jolysulfur compounds, the distribution of carbon distrible for the formation of its somponents. This determination was carried out much more rapidly than by the usual analytical methods. The danger of the mutual exchange of radioactive and normal sulfur atoms within the molecule and between the molecules is best removed by soilum syanide as sulfur

acceptor. The dixantnogenites form throadil annythrides on the Card 1/3

Chemistry of Xanthates and Viscose. VIII. Investigation of the Polysultur Compounds and of the Composition of Viscose Using Tracer Atoms

separation of one sulfur atom:

$$\begin{bmatrix}
c_{6}^{H}_{10-2x}^{O}_{5-2x} & \begin{pmatrix} c_{-CSS} \\ c_{-CSS} \end{pmatrix}_{x} \\ n
\end{bmatrix}
\xrightarrow{c_{6}^{H}_{10-2x}^{O}_{5-x}}
\begin{bmatrix}
c_{6}^{H}_{10-2x}^{O}_{5-x} & \begin{pmatrix} c_{-CS} \\ c_{-CS} \end{pmatrix}_{x} \\ n
\end{bmatrix}$$
(4)

Compared with the calculated values the dixanthogenide of cellulose in these experiments separates more sultur which is probably the to the unstable behaviour of the thicacid annydrides in alkaline media. Thus, the separation of sulfur from the dixanthogenides of cellulose and of ethyl alcohol from sodium disulfide and sodium perthicarbonate was investigated by means of radioactive atoms and adjurding to the usual analytical method. The radicactive method of separation makes it possible to carry out rather exactly the separation of sulfur from sodium disulfide and sodium perthicarbonate by means of sodium sulfite and sodium cyanide.— There are 9 tables and 13 references, 7 of which are Soviet.

Card 2/3

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AUTHORS: Danilov, S. N., Lopatenck, A. A. SCV, 79-25-12-4,41

TITLE: Anhydro, Desexy, and Unsaturated Derivatives of Folysaccharides

(Angidro-, dezokai i nenasyahchennyye proitvodnyye

polisakharidov) I. Desoxy Cellulose From Cyanoethoxyl Cellulose

(I. Dezoksitsellyuloza iz tsianoetoksiltsellyulozy)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 12, pp 3184-3188

(USSE)

ABSTRACT: Deoxidized monoderivatives with methylene groups in the

place of secondary alcohol groups (desoses), and with methyl groups in the place of primary alcohols (methyloses) may be found in Nature and can be synthesized in different ways. Until now only few syntheses of deoxidized religioses of the formula (C.H. O.)

the formula  $(C_0^H; C_0^O; x)_n$  have been published, predominantly

with methyl groups obtained by way of tosyl ethers and iodine derivatives. To obtain these celluloses also their iodine derivatives and their unsaturated compounds were reduced

(Refs 1,2) The general synthesis of the decided celluloses

with methylene and methyl groups were realized by

Card 1/3 P P. Shorygin by the eleavage of ether with sodium, especially

Anhydro, Desoxy, and Unsaturated Derivatives of Polysaccharides I Desoxy Celluluse From Cyanoethoxyl Celluluse

W SECONFORM WEST AND REPORT OF A STATE OF THE SECOND SECON

367, 79-28 12 4/4"

in liquid ammonia (Refs 3.4). Shorygin and his cooperators used the disavage reaction of the others with Na in liquid ammonia also with methylated sugars, methyl cellilose, benzylethers of cellulose and acetyl cellulose (Refs = .0). Positive results were obtained in the deoxidation of cellulose only in the case of methyl cellilose, nowever, only a partially decoxidated methyl cellulose resolted. First the authors processed the industrially produced ethyl cellulose (Ref 16) (46.8%0002H<sub>5</sub>)

with Na in liquid ammonia, yet no sufficient separation of the echoxyl groups occurred. Based on theoretical considerations an easier separation of the dyandethoxyl groups could be expected when using yan ethoxyl deliliose. Cellulose actually completely loses these groups, partly as adrylic acid, with methylene and partly methyl groups forming in the place of alcohol groups in the glucose members. Desoxy cellulose is formed as the final product. Part of the dyandethoxyl groups separates under the formation of desoxy groups, another part as adryleritrile, due to the reversible dyandethylation read-

Card 2/3

Anhydro, Desoxy, and Unsaturated Derivatives : 5007,79-60-12-4/41
Polysaccharides. I Destxy Cellulose From
Cyanoethoxyl Cellulose

tion in the alkaline medium. The presence of desoxy groups in the reaction product is proved by the analysis of the final product, its acetate and nitrate. There are 'table and '5 references. 8 of which are Soviet

ASSOCIATION: Leningradskiy tekhnologicneskiy institut imen: Lensoveta (Leningrad Technologica, institute imen: Lensovet)

SUBMITTED: January 6, '958

367,74-28-12-5,41 AUTHORS: Dentlor, S. N., Lopatenik, A. A. TITLE: Anhydro, Desoxy, and Unsaturated Derivatives of Folysacchariles (Angidro-, dezoksi- i nenasyshchennyye proizvodnyye pollsakharidov) II. Synthesis of Annydrocellulose From Esters of p-Toluenesulforio And II. Sintez angidrotsellyulozy iz p-toluotsutifoxistotnykh efirov PERIODICAL: Znurnal otehoney knimii 1956, Vol 28, No 12, pp 3189-3191 (USSR) ABSTRACT: Besides other syntheses of annydrocellulose (Ref 1; only one paper exists (Ref 2, in which its synthesis is described in the form of its mixed toay, and acetic ester from the mixed abetic and to sy , ester of belowless on the action of caustic acks and to 3/2 ester. The composition of annydrocellulose corresponds to the formula  $\frac{1}{6}H_{10-2x}G_{5-x}G_{$ were treated with eidium in liquid amminia or with organic bases (piperidine etc.) (Ref. f. The use of piperidine yielded final products which were difficult to characterize (Ref. 4). Card 1/4 Samples of anhydrosellusose are described in the experimental

Anhydro, Desoxy, and Unsaturated Derivatives of Polysaccharides. II. Synthesis of Anhydrocellulose From Esters of p-Toluenesulfonic Acid

SE DESCRIBERACIONES AND MARION DE CARROLINA DE LA COMPANSIÓN DE CARROLINA DE CARROL

507/79-28-12-5/41

part, which were obtained on the action of sodium in liquid ammonia on tosyl cellulose, the composition of which could be proved by its analysis and that of its acetic esters. As the tosyl groups in the cellulose enter mainly the primary, partly also the secondary, and only to a small extent the tertiary alcohol group, the authors could determine the position of the anhydride nucleus in the above anhydrocellulose samples with high probability. On the action of sodium on liquid ammonia the p-toluenesulfonic acid separates under the formation of the anhydro nuclei from the tosyl esters of cellulose which contain more than 1 tosyl group per 1 glucose member; the other tosyl groups are subjected to hydrolysis. There are 2 figures and 5 references, 1 of which is Soviet.

ASSOCIATION:

Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

Card 2/3

TO SECURE AND A SECURE OF THE PROPERTY OF THE

AUTHORS: Danilov, S.N., Antse, N.F., Okan', M. J. 327, 9-25-12-6/41

TITLE: Chemistry of Xanthates and Viscose (Khimiya ksant benatov i viskozy)

IX. The Detection of Polysulfur Compounds in Viscose and the Part Played by Them (IX. Obnaruzheniye polisernistykh scyedineniy v vis-

koze i ikh rel')

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 12, pp 3192-3202 (USSR)

ABSTRACT: Viscose, alkali cellulose, and the suprammonium solutions of cellulose differ from many other products and technical mixtures in

their complex character and the strange processes occurring in them. These processes are not only of technical but also of purely scientific interest. In a certain sense they can be regarded as models of important biological systems in which the oxidizing and redox processes, as well as the the occurring transport of sulfur and the transitions between disulfide and mercaptan groupings are of great

importance (the transformation of cysteine, cystine, glutathione).

H - 3 - 3H + - 3H

Card 1/3 acceptor - -3 - - S - acceptor

JOV: 79-28-12-6/41

Chemistry of Manthates and Tiscose, IX. The Detection of Polysulfir Compounds in Viscose and the Part Played by Them

The chemical transformations which are important in the course of ripening of viscose take place with the xanthate of cellulose, sodium sulfite sodium thiocarbonate etc Whereas the entire content of polysulfur compounds in viscose is determined by means of sodium lyannie and sodium sulfite, the separate determination of their content by means of the potentiometric method is very diffibuilt, aspecially in the presence of alkali. The xanthate can be Inberated from side compounds by activated carbon and anionites. The course of the curve of optical density of the viscose solutions and alcoholic solutions of trithiocarbonate are the same; in the agreous solutions of Brithicoarbonate solicam disulfide was found by the hydrolysis and exidation of the former. In the viscose solution there is a large quantity of trithiocarbonate and a small amount of perthapolarbonate. Figures 1.2.3 present the managerative potentiometri: titrations of the salt solutions with silver nitrate considered in the investigation (solutions of sodium sulfite, solium thiosulfate, trithiocarbonate, perthiocarbonate, sulfide, disulfide, etc.) The spectrographic investigations simed at letesting the polysulfur compounds of sodium disulfade and perthacourbonate to

Card 2/3

3CV/ 19-28-12-6/41

Chemistry of Kanthates and Viscose, IA. The Detection of Polysulfur Compounds in Viscose and the Part Played by Them

find these compounds in viscose. In figure 4 the dependence of the optical density of the solutions on the wave length is given.—
There are 4 figures and 20 references, 12 of which are 3oviet.

ASSOCIATION: Institut

Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR i Leningradskiy khimiko-teknnologicheskiy institut imeni Lensoveta (Institute of High-Molecular Compounds, Academy of Sciences USSR, and Leningrad Chemotechnological Institute imeni Lensovet

SUBMITTED:

January 23, 1958

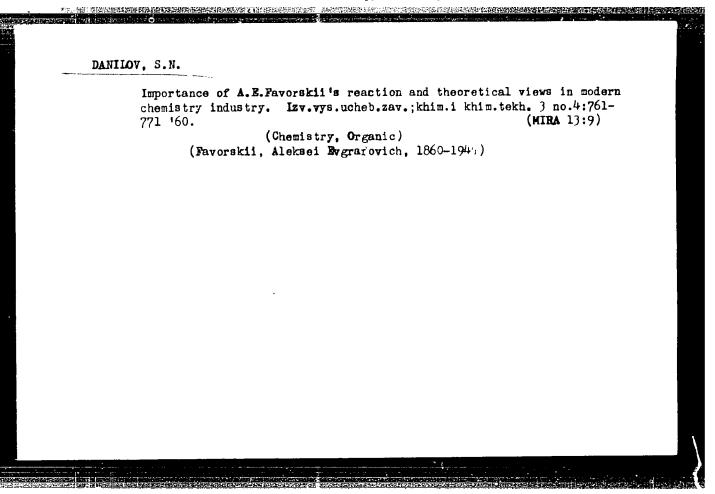
Card 3/3

DANILOV, S.N.; SIDOROVA-TEXHOMIROVA, N.S.; KULAKOVA, O.M.

Emulsion xanthogenation. Zhur. prikl. khim. v. 31 no.5:765-771

My '58.

(Emulsions) (Xanthic acid)



. . . . . 307 / 3-4-5-5 3 ' Danilov, S. M. (Corresponding Messer of the MSSR AUTHOR: A nalemy of Spionces) Janualose and Other Hexasam as Startus Materials in TITLE: Orașii Soriusia Kill times magratura 3ka is promoting to a 1%, the 4 , 3 to 4 , 3k to 4 , 4k (USSR) PERIODIDA This is a review (based on literature data) of methods ABSTRACT: for converting reliulose and other hexosans into the stanting materials in organic contraces. The following methodo and materials were discussed: hydrolysis, algunolysis, mengaptolysis, solo lysis, and fermentation of polysaucharides (including the preparation of furfure) from polyurides and expoilialoses); hydrogenelysic of polysaccharides and hydrogenation of minoses; thermal Stravage of polysacinarides (formation of formaldehyde, extigated was a furthered, and other is a id delighration of proper marides and men sec with the furmation of, production in the engine and the contract of t

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PHASE I BOOK EXPLOITATION

30V/4583

Leningrad. Universitet

Voprosy teorii stroyeniya organicheskikh soyedineniy (Problems in the Theory of e Structure of Organic Compounds) [Leningrad] 1960. 239 p. Erruta slip inserted. 3,725 copies printed.

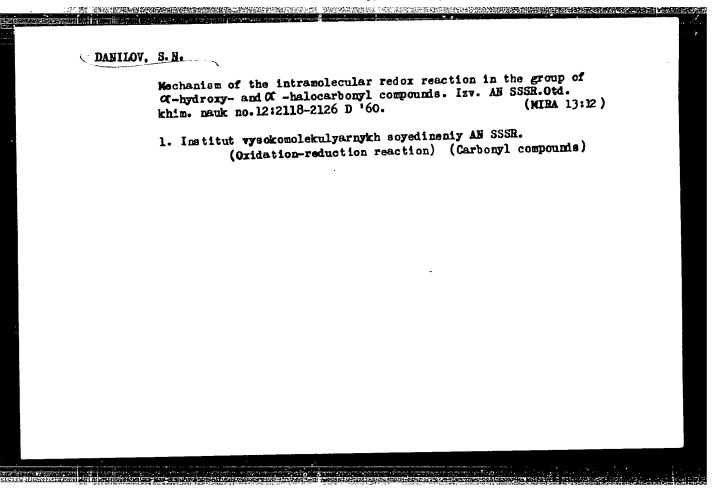
Sponsoring Agency: Leningradskiy ordena Lenina Gosudarstvennyy universitet im. A.A. Zhdanova.

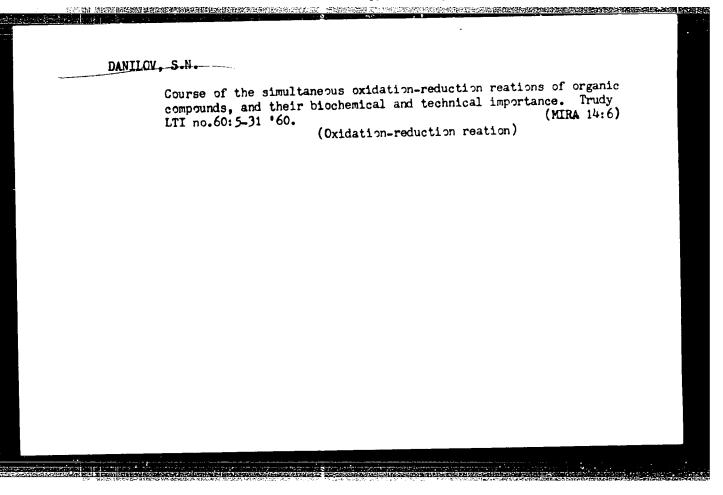
desp. Ed.: T.A. Favorskaya; Ed.: V.D. Piastro; Tech. Ed.: S.D. Vodolagina.

PURPOSE: This collection of articles is intended for chemists and organic shemists.

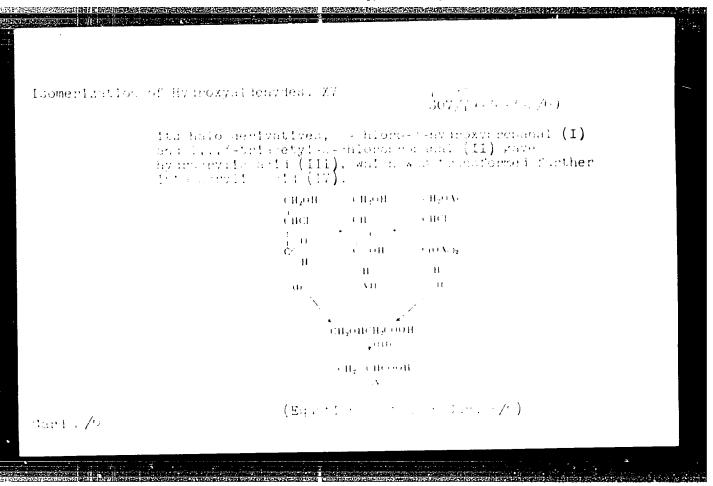
COVERAGE: The collection is concerned with the scientific legacy of A.Ye. Favorskiy, and includes discussions of his theoretical views and their evolution in connection with the development of theoretical organic chemistry. The articles review problems on the structure, reactivity and transformations of various classes of organic compounds: unsaturated acyclic and cyclic hydrocarbons, saturated and unsaturated alcohols, glycols and carbonyl compounds. No personalities are mentioned. References accompany each article.

Problems in the Theory of the Structure (Cont.)	SOV/4583	
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Danilov, S.N. Evolution of A.Ye. Favorskiy's Ideas on Reactions and Present-Day Understanding of the Mechani Reactions	the Course of Chemical sms of Favorskiy	7
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Card 2/3		





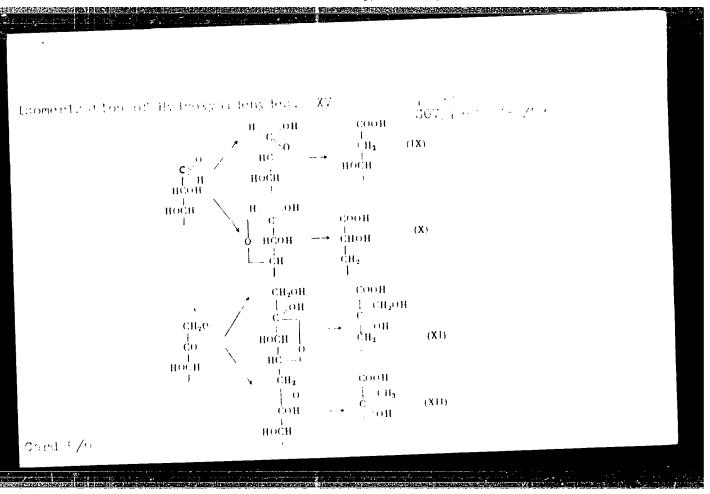
Science 1 1. 1.7400 Decision, B. N., Astronom, A. H., Losstonom, A. A. AUTHORS: Imponentiation of Hydroxial and Med. (C). Anti Trans-TITLE: Commations of Glycom Andry to and It meals Decivatives Zharman, othinheney whitelf, less,  $V_{S}=0.7$ , Nr. f. total  $V_{S}=0.7$ , (USSR) PERIODICAL: Optho-watcharinte acti was offather by 3. M. Danflov ABSTRAUT: ant A. M. Gakhokiase (this fournes, 197, Vol., 700 Ben., 1986, Vol. 69, 6 1169) in mostion of J-halomaterial take to monoses with least to inext in. It was expected, therefore, that monoger containing unimmatituted by monyla at 3, and 3, with them an inexplored by substituents starte in a constitue medium, will domestize similarity to set it with Pr(OH) to o our constitution and in . It was one who that (z+1) gly-sensite by the (V) incomes the site of the with freshly need that the s Pb(OF) . Let (z+1) whereas Carl 1/



Isoment tot for of Hymoxy eldeby men 507/7 -- 10 12 /19 CHyOH -CH₂  $\|\cdot\|_{\mathrm{clion}}$ i CHOIL спон COOR 11 (VIII) (Y1) The exidation-reduction of I and H probe is here with the participation of 21 alom is lpha resiltion with respect to the allehyde group, and the penation are be explained by the formation of lpha-rishosites (VII). The oxi-In the formation of  $\mathbf{q}$ -caronines (711), the exilation-reduction of the p-viewal below by V there place
between the allehyde called the interuncted at a posee that the example the  $\mathbf{\beta}$ -closed by interuncted at a posee that therefore  $\mathbf{\beta}$  alleged by (VIII).

Tonal leafure the above, the formation of particular  $\mathbf{\beta}$ and in from monoment was not over later by the  $\alpha$  - and  $\beta$ -viscosite compounts.  $\beta$ -Alberta, well-air continues of the fig. to the oxidation-relation transformations of

mediantion	of Hydroxyal tely ies. X7	307.77 (-70-1-1-1)
	of the H atom Into $oldsymbol{eta}$ -nowith which infet was is from Retorious (XII); (i) the formulation of the extension with extension with the extension of the extension with the extension of the extension	if expect the resemble is in the factowing mechanisms and an entire ( ) the manufactories ( ) the manufactories ( ) the formation (X); (i) the formation (XI) with migration for; (r) the formation of express the formation of expectations (XI) with migration for; (r) the formation of expectations (XI) with migration (I) the formation of expectations (XI) with migration (I) the formation of expectation (I) and (I) are sold in the formation (I).



Isomerization of Hydroxyaldehydes. XV

(%, +% SOV/()-10-1-7%)

Ion exchange resins KU-L and EDE-10 were used in the

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operiments. There we 10 references. ".S., 1

Grumon, / Soviet. The . U.S. references are: M. Gibbs, J. Am. Chem. Soc., 72, from (1957); J. Sowien, Adv. Carbon. Chem., 12, 70 (1957).

ASSOCIATION:

Lemsoviet Leningrad Technological Institute on

of High-Molecular Compounds, Avalemy of Science

(Leningraiskly tekhnologicheskiv institut imeni

Lendoveta ! Institut vysokomolek lydrayki doyedineniy

Akakemii nauk SSSR)

SUBMITTED:

January In, 1891

Card 6/5